Pediatric Medical Emergencies: Non-Traumatic Shock

All Provider Levels

- 1. Follow the General Patient Care guidelines in section A1.
- 2. Establish patient responsiveness.
 - If cervical spine trauma is suspected, manually stabilize the Α. spine.
- 3. Check the airway.
 - Α. Open the airway using a head tilt chin lift if no spinal trauma is suspected, or modified jaw thrust if spinal trauma is suspected.
 - B. Consider placing an oropharyngeal or nasopharyngeal airway adjunct if the airway cannot be maintained with positioning.
 - C. Suction as necessary.
- 4. Assess the patient's breathing including rate, auscultation, inspection, effort and adequacy of ventilation as indicated by chest rise.
 - Α. Obtain a pulse oximeter reading.
- If no breathing is present, then position the airway and start bag 5. valve ventilations using 100% oxygen.
 - A. Refer to the vital signs chart for appropriate rates.

Revision Number: DRAFT - 3 Effective Date: November 20. 2002 Revision Date: November 2002 Page: S4.1



Pediatric Medical Emergencies: Non-Traumatic Shock

I. All Provider Levels (continued)

6. If airway cannot be maintained, begin ventilations with B-V-M and initiate advanced airway management using a combi-tube.



Note Well: Do not use a combi-tube on a patient younger

than 16 years of age or less than 5-feet tall.



Note Well: The EMT-I and EMT-P should use ET intubation.

- 7. If breathing is adequate, place the child in a position of comfort and administer high flow, 100% oxygen.
 - A. Use a non-rebreather mask or blow by as tolerated.
- 8. Assess circulation and perfusion.
- 9. Call for ALS support. Initiate care and do not delay transport waiting for an ALS unit.

Effective Date: November 20, 2002 Revision Number: DRAFT - 3

Revision Date: November 2002 Page: S4.2



Pediatric Medical Emergencies: Non-Traumatic Shock

I. All Provider Levels (continued)

10. Establish an IV of normal saline using an age-appropriate large bore catheter with large caliber tubing.



Note Well: BLS Providers cannot start an IV on a patient less

than eight years of age



Note Well: An ALS unit must be en route or on scene.



Note Well: If IV access cannot be readily established and the

child is younger than 6 years of age then ALS
Providers only may proceed with IO access. If the
child is over 6 years of age, then contact Medical
Control for IO access.

- A. Do not delay transport to obtain vascular access.
- 11. Assess vital signs.

II. Advanced Life Support Providers



- 1. Initiate cardiac monitoring.
- 2. If evidence for shock persists, administer a fluid bolus of normal saline at 20ml/kg set to maximum flow rate.
 - A. Reassess patient after a bolus. If signs of shock persist, bolus may be repeated at the same dose up to two times for a maximum total of 60 ml/kg.

Effective Date: November 20, 2002 Revision Number: DRAFT - 3

Revision Date: November 2002 Page: S4.3





III. Transport Decision

- Contact medical control for further instructions.
- 2. Initiate transport to the nearest appropriate facility as soon as possible.
- 3. Perform focused history and detailed physical exam en route to the hospital.
- 4. Expose the patient only as necessary and maintain the child's body temperature.
- 5. Reassess at least every 3-5 minutes, more frequently as necessary and possible.



IV. The Following Options are Available by Medical Control Only

1. IO access for patients greater than 6 years of age.



This protocol was developed and revised by Children's National Medical Center, Center for Prehospital Pediatrics, Division of Emergency Medicine and Trauma Services, Washington, D.C.

Effective Date: November 20, 2002 Revision Number: DRAFT - 3

Revision Date: November 2002 Page: S4.4